

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1-23. (Canceled)

24. (Currently Amended) A method for providing a urinary tract tissue graft composition, comprising:

providing a tissue culture frame;

providing a segment of small intestinal submucosa having a mucosal surface and a serosal surface;

positioning the segment of small intestinal submucosa in the tissue culture frame such that the segment of small intestinal submucosa is suspended and held in a taut position by the tissue culture frame;

isolating and culturing at least one bone marrow stromal cell from a tissue specimen of a subject; and

seeding the at least one bone marrow stromal cell on a surface of the segment of small intestinal submucosa **to form a urinary tract tissue graft composition; and**

culturing the urinary tract tissue graft composition under conditions that allow such that the at least one bone marrow stromal cell **differentiates to differentiate** into a smooth muscle-like cell and **exhibits exhibit** three-dimensional growth and matrix penetrance.

25. (Original) The method of claim 24 wherein, in the step of providing a segment of small intestinal submucosa, the segment of small intestinal submucosa consists essentially of a distal ileal segment of small intestinal submucosa isolated from a mature adult pig.

26-43. (Canceled)

44. (Previously presented) A method for repairing a damaged urinary tract tissue of a subject, comprising the steps of:

isolating and culturing at least one bone marrow stromal cell from a tissue specimen of a subject;
providing a segment of small intestinal submucosa having a mucosal surface and a serosal surface;
seeding the at least one bone marrow stromal cell on a surface of the segment of small intestinal submucosa;

allowing the segment of small intestinal submucosa having the at least one bone marrow stromal cell seeded thereon to mature in culture such that the at least one bone marrow stromal cell differentiates into a smooth muscle-like cell and exhibits three dimensional growth and matrix penetrance; and

contacting the damaged urinary tract tissue with the seeded segment of small intestinal submucosa under conditions such that growth of the urinary tract tissue occurs and the damaged urinary tract tissue is repaired, thereby restoring urological function.

45. (Original) The method of claim 44 wherein, in the step of providing a segment of small intestinal submucosa, the segment of small intestinal submucosa consists essentially of a distal ileal segment of small intestinal submucosa isolated from a mature adult pig.

46-55. (Canceled)

56. (Newly added) The method of claim 24, wherein the step of seeding the at least one bone marrow stromal cell on a surface of the segment of small intestinal submucosa is further defined as seeding the at least one bone marrow

stromal cell on the mucosal surface of the segment of small intestinal submucosa.

57. (Newly added) The method of claim 24, wherein the step of seeding the at least one bone marrow stromal cell on a surface of the segment of small intestinal submucosa is further defined as seeding the at least one bone marrow stromal cell on the serosal surface of the segment of small intestinal submucosa.

58. (Newly added) The method of claim 44, wherein the step of seeding the at least one bone marrow stromal cell on a surface of the segment of small intestinal submucosa is further defined as seeding the at least one bone marrow stromal cell on the mucosal surface of the segment of small intestinal submucosa.

59. (Newly added) The method of claim 44, wherein the step of seeding the at least one bone marrow stromal cell on a surface of the segment of small intestinal submucosa is further defined as seeding the at least one bone marrow stromal cell on the serosal surface of the segment of small intestinal submucosa.